

F. Hamud.

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A#7

OCT 10 2000

1647

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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/284,100

DATE: 09/27/2000
 TIME: 15:55:47

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3 <110> APPLICANT: Narhi, Linda O.
 4 Osslund, Timothy D.
 6 <120> TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2 PRODUCTS
 8 <130> FILE REFERENCE: A-423C
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/284,100
 C--> 11 <141> CURRENT FILING DATE: 1999-04-07
 13 <150> PRIOR APPLICATION NUMBER: US 60/028,493
 14 <151> PRIOR FILING DATE: 1996-10-15
 16 <150> PRIOR APPLICATION NUMBER: US 60/032,781
 17 <151> PRIOR FILING DATE: 1996-12-06
 19 <150> PRIOR APPLICATION NUMBER: US 60/033,046
 20 <151> PRIOR FILING DATE: 1996-12-10
 22 <160> NUMBER OF SEQ ID NOS: 63
 24 <170> SOFTWARE: PatentIn Ver. 2.0
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 627
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Recombinant Human
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 32 <221> NAME/KEY: CDS
 33 <222> LOCATION: (1)..(624)
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 38 1 5 10 15
 40 ccc gcc tgc tgc tgc tgc ttt ttg ttg ctg ttc ttg gtg tct tcc 96
 41 Pro Gly Cys Cys Cys Cys Phe Leu Leu Leu Phe Leu Val Ser Ser 30
 42 20 25 30
 44 gtc cct gtc acc tgc caa gcc ctt ggt cag gac atg gtg tca cca gag 144
 45 Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu 45
 46 35 40 45
 48 gcc acc aac tct tct tcc tcc ttc tcc tct cct tcc agc gcg gga 192
 49 Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly 60
 50 50 55 60
 52 agg cat gtg cgg agc tac aat cac ctt caa gga gat gtc cgc tgg aga 240
 53 Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg 75
 54 65 70 75
 56 aag cta ttc tct ttc acc aag tac ttt ctc aag att gag aag aac ggg 288
 57 Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly 95
 58 85 90 95
 60 aag gtc agc ggg acc aag aag gag aac tgc ccg tac agc atc ctg gag 336
 61 Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu 105
 62 100 110
 64 ata aca tca gta gaa atc gga gtt gtt gcc gtc aaa gcc att aac agc 384
 65 Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser 120
 66 115 125
 68 aac tat tac tta gcc atg aac aag aag ggg aaa ctc tat ggc tca aaa 432

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69 Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys
70      130      135      140
72 gaa ttt aac aat gac tgt aag ctg aag gag agg ata gag gaa aat gga 480
73 Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly
74 145      150      155      160
76 tac aat acc tat gca tca ttt aac tgg cag cat aat ggg agg caa atg 528
77 Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met
78      165      170      175
80 tat gtg gca ttg aat gga aaa gga gct cca agg aga gga cag aaa aca 576
81 Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr
82      180      185      190
84 cga agg aaa aac acc tct gct cac ttt ctt cca atg gtg gta cac tca 624
85 Arg Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser
86      195      200      205
88 tag 627
91 <210> SEQ ID NO: 2
92 <211> LENGTH: 208
93 <212> TYPE: PRT
94 <213> ORGANISM: Recombinant Human
96 <400> SEQUENCE: 2
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100 Pro Gly Cys Cys Cys Cys Phe Leu Leu Phe Leu Val Ser Ser
101      20      25      30
103 Val Pro Val Thr Cys Gln Ala Leu Gly Gln Asp Met Val Ser Pro Glu
104      35      40      45
106 Ala Thr Asn Ser Ser Ser Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly
107      50      55      60
109 Arg His Val Arg Ser Tyr Asn His Leu Gln Gly Asp Val Arg Trp Arg
110      65      70      75      80
112 Lys Leu Phe Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly
113      85      90      95
115 Lys Val Ser Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu
116      100      105      110
118 Ile Thr Ser Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser
119      115      120      125
121 Asn Tyr Tyr Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys
122      130      135      140
124 Glu Phe Asn Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly
125 145      150      155      160
127 Tyr Asn Thr Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met
128      165      170      175
130 Tyr Val Ala Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr
131      180      185      190
133 Arg Arg Lys Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser
134      195      200      205
137 <210> SEQ ID NO: 3
138 <211> LENGTH: 426
139 <212> TYPE: DNA

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149 1 5 10 15
151 tcc ttc acc aag tac ttt ctc aag att gaa aag aac ggc aag gtc agc 96
152 Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser
153 20 25 30
155 ggg acc aag aag gaa aac tgt ccg tac agt atc cta gag ata aca tca 144
156 Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser
157 35 40 45
159 gtg gaa atc gga gtt gtt gcc gtc aaa gcc att aac agc aac tat tac 192
160 Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr
161 50 55 60
163 tta gcc atg aac aag aag ggg aaa ctc tat ggc tca aaa gaa ttt aac 240
164 Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn
165 65 70 75 80
167 aat gac tgt aaa ctg aaa gag agg ata gag gaa aat gga tac aac acc 288
168 Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr
169 85 90 95
171 tat gca tct ttt aac tgg cag cac aac ggc agg caa atg tat gtg gca 336
172 Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala
173 100 105 110
175 ttg aat gga aaa gga gct ccc agg aga gga caa aaa aca aga agg aaa 384
176 Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys
177 115 120 125
179 aac acc tcc gct cac ttc ctc ccc atg gtg gtc cac tca taa 426
180 Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser
181 130 135 140
184 <210> SEQ ID NO: 4
185 <211> LENGTH: 141
186 <212> TYPE: PRT
187 <213> ORGANISM: Recombinant Human
189 <400> SEQUENCE: 4
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191 1 5 10 15
193 Ser Phe Thr Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser
194 20 25 30
196 Gly Thr Lys Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser
197 35 40 45
199 Val Glu Ile Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr
200 50 55 60
202 Leu Ala Met Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn
203 65 70 75 80
205 Asn Asp Cys Lys Leu Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr
206 85 90 95

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208 Tyr Ala Ser Phe Asn Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala
209          100          105          110
211 Leu Asn Gly Lys Gly Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys
212          115          120          125
214 Asn Thr Ser Ala His Phe Leu Pro Met Val Val His Ser
215          130          135          140
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219 <211> LENGTH: 459
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221 <213> ORGANISM: Recombinant Human
223 <220> FEATURE:
224 <221> NAME/KEY: CDS
225 <222> LOCATION: (1)..(456)
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229 Met Ser Ser Pro Ser Ser Ala Gly Arg His Val Arg Ser Tyr Asn His
230 1 5 10 15
232 ctc cag gga gat gtc cgc tgg aga aag ctg ttc tcc ttc acc aag tac 96
233 Leu Gln Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr
234 20 25 30
236 ttt ctc aag att gaa aag aac ggc aag gtc agc ggg acc aag aag gaa 144
237 Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser Gly Thr Lys Lys Glu
238 35 40 45
240 aac tgt ccg tac agt atc cta gag ata aca tca gtg gaa atc gga gtt 192
241 Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val
242 50 55 60
244 gtt gcc gtc aaa gcc att aac agc aac tat tac tta gcc atg aac aag 240
245 Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn Lys
246 65 70 75 80
248 aag ggg aaa ctc tat ggc tca aaa gaa ttt aac aat gac tgt aaa ctg 288
249 Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu
250 85 90 95
252 aaa gag agg ata gag gaa aat gga tac aac acc tat gca tct ttt aac 336
253 Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn
254 100 105 110
256 tgg cag cac aac ggc agg caa atg tat gtg gca ttg aat gga aaa gga 384
257 Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala Leu Asn Gly Lys Gly
258 115 120 125
260 gct ccc agg aga gga caa aaa aca aga agg aaa aac acc tcc gct cac 432
261 Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys Asn Thr Ser Ala His
262 130 135 140
264 ttc ctc ccc atg gtg gtc cac tca taa 459
265 Phe Leu Pro Met Val Val His Ser
266 145 150
269 <210> SEQ ID NO: 6
270 <211> LENGTH: 152
271 <212> TYPE: PRT
272 <213> ORGANISM: Recombinant Human
274 <400> SEQUENCE: 6

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275 Met Ser Ser Pro Ser Ser Ala Gly Arg His Val Arg Ser Tyr Asn His
276 1 5 10 15
278 Leu Gln Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr Lys Tyr
279 20 25 30
281 Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser Gly Thr Lys Lys Glu
282 35 40 45
284 Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile Gly Val
285 50 55 60
287 Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met Asn Lys
288 65 70 75 80
290 Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys Lys Leu
291 85 90 95
293 Lys Glu Arg Ile Glu Glu Asn Gly Tyr Asn Thr Tyr Ala Ser Phe Asn
294 100 105 110
296 Trp Gln His Asn Gly Arg Gln Met Tyr Val Ala Leu Asn Gly Lys Gly
297 115 120 125
299 Ala Pro Arg Arg Gly Gln Lys Thr Arg Arg Lys Asn Thr Ser Ala His
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302 Phe Leu Pro Met Val Val His Ser
303 145 150
306 <210> SEQ ID NO: 7
307 <211> LENGTH: 513
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309 <213> ORGANISM: Recombinant Human
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312 <221> NAME/KEY: CDS
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318 1 5 10 15
320 agc agc ttc tcc tct cct agc tct gca ggt agg cat gtg cgg agc tac 96
321 Ser Ser Phe Ser Ser Pro Ser Ser Ala Gly Arg His Val Arg Ser Tyr
322 20 25 30
324 aat cac ctg cag gga gat gtc cgc tgg aga aag ctg ttc tcc ttc acc 144
325 Asn His Leu Gln Gly Asp Val Arg Trp Arg Lys Leu Phe Ser Phe Thr
326 35 40 45
328 aag tac ttt ctg aag att gaa aag aac ggc aag gtc agc ggg acc aag 192
329 Lys Tyr Phe Leu Lys Ile Glu Lys Asn Gly Lys Val Ser Gly Thr Lys
330 50 55 60
332 aag gaa aac tgt cgg tac agt atc cta gag ata aca tca gtg gaa atc 240
333 Lys Glu Asn Cys Pro Tyr Ser Ile Leu Glu Ile Thr Ser Val Glu Ile
334 65 70 75 80
336 gga gtt gtt gcc gtc aaa gcc att aac agc aac tat tac tta gcc atg 288
337 Gly Val Val Ala Val Lys Ala Ile Asn Ser Asn Tyr Tyr Leu Ala Met
338 85 90 95
340 aac aag aag ggg aaa ctg tat ggc tca aaa gaa ttt aac aat gac tgt 336
341 Asn Lys Lys Gly Lys Leu Tyr Gly Ser Lys Glu Phe Asn Asn Asp Cys
342 100 105 110

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9/27/00

VERIFICATION SUMMARY

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DATE: 09/27/2000

TIME: 15:55:49

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date